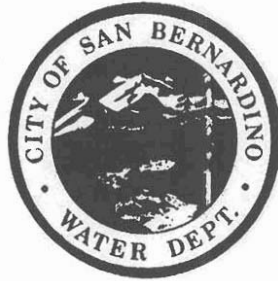


# CITY OF SAN BERNARDINO MUNICIPAL WATER DEPARTMENT

## BOARD OF WATER COMMISSIONERS

B. WARREN COCKE  
President

Commissioners  
JUDITH W. BATTEY  
TONI CALLICOTT  
NORINE I. MILLER  
LOUIS A. FERNANDEZ



STACEY R. ALDSTADT  
General Manager  
ROBIN L. OHAMA  
Deputy General Manager  
W. WILLIAM BRYDEN, P.E.  
Director of Water Utility  
JOHN A. PERRY, P.E.  
Director of Water Reclamation  
VACANT  
Director of Administration & Finance  
JON K. TURNIPSEED  
Safety Program Manager

January 17, 2006

Ms. Yen Tran  
Sanitary Engineer  
State Department of Health Services  
Drinking Water Field Operator Branch  
464 W. 4th Street, Suite 437  
San Bernardino, CA 92401

RE: DECEMBER 2005 MONTHLY SUMMARY TREATMENT REPORTS FOR SYSTEM  
NO. 3610039, WATER SUPPLY PERMIT NO. 03-13-99P-002

Dear Ms. Tran:

Enclosed are the monthly summary reports for each Granular Activated Carbon and Packed Tower Aeration facility. The required information is provided in two separate report formats: Information on well production, plant influent and effluent water flow and amount of contaminant removed are covered in the December 2005 Operations Monthly Treatment Reports. Information on bacterial results and constituents of concern for each of the wells and treatment plants for the month of December 2005 is presented in the attached Water Quality Reports, Newmark OU/Towers/19th Street GAC.

It is my understanding the energy consumed for each is no longer of interest to DHS and is not required in the monthly reports.

Ms. Yen Tran  
Page 2  
December 22, 2005

Please contact me at (909) 384-5107 if additional information or modifications to the formats of the reports are desired.

Sincerely yours,

A handwritten signature in dark ink, appearing to read 'W. William Bryden', with a stylized flourish at the end.

W. William Bryden, P.E.  
Director, Water Utility

WWB:tal  
Attach.

cc: Kim Hoang, Ph.D. (w/attach)  
Stacey R. Aldstadt (w/attach)  
Robin Ohama (w/attach)  
Mike Lowe (w/attach)  
Matthew Litchfield (w/attach)  
Valerie Housel (w/attach)  
Pat Abeyta (w/attach)  
Lana Kennerly (w/attach)

**Newmark OU / Towers / 19th St South GAC / 19th St North GAC**

CITY OF SAN BERNARDINO  
MUNICIPAL WATER DEPARTMENT

EPA 17th Street Plant					
<b>Production GAC Wells</b>					
EPA 003		209.828 AF			
<b>GAC Treatment</b>					
Vessel	Monthly Treated	Total Since Change-out	Vessel	Monthly Treated	Total Since Change-out
1A	0.000	757.677	1B	67.984	128.409
2A	0.000	722.434	2B	67.243	126.483
3A	0.000	748.903	3B	74.454	142.613
<b>Totals</b>	<b>0.000 AF</b>	<b>2229.014 AF</b>		<b>209.681 AF</b>	<b>397.505 AF</b>
<b>Vessels</b>					
TCE-In	0.9				
TCE-Out	0.0				
PCE-In	3.6				
PCE-Out	0.0				
<b>Total</b>	<b>4.5 ug/L</b>	<b>lbs Removed</b>	<b>2.56</b>		

EPA South Plant and Waterman Towers									
		Tower Wells		Wells		Towers			
		Waterman		6.742		TCE+PCE-In		5.5 TCE+PCE-Out 0.0	
		30th St.		0.002		TCE+PCE-In		5.5 TCE+PCE-Out 0.0	
Production GAC Wells		South Tower Total		6.744 AF					
EPA 002	217.397	Leroy		5.654		TCE+PCE-In		5.5 TCE+PCE-Out 0.0	
EPA 004	221.067	31st St.		3.384		TCE+PCE-In		5.5 TCE+PCE-Out 0.0	
EPA 005	223.120								
Total		661.584 AF		North Tower Total		9.038 AF			
GAC Treatment									
Vessel		Monthly Treated		Total Since Change-out		Vessel		Monthly Treated	
								Total Since Change-out	
1A		98.023		535.720		1B		0.000 1015.341	
2A		93.097		493.134		2B		0.000 1012.581	
3A		98.475		526.106		3B		0.000 994.248	
4A		84.945		523.041		4B		0.000 1030.361	
5A		84.626		504.406		5B		0.000 989.723	
6A		45.503		294.047		6B		0.000 1033.084	
7A		71.754		486.218		7B		0.000 1046.111	
8A		83.845		567.693		8B		0.000 1198.688	
Totals		660.268 AF		3930.365 AF		0.000 AF		8320.137 AF	
Vessels						Towers			
TCE-In 0.6						#'s Removed Waterman 0.10			
TCE-Out 0.0						#'s Removed 30th St 0.00			
PCE-In 2.0						#'s Removed Leroy 0.08			
PCE-Out 0.0						#'s Removed 31st St 0.05			
Total		2.6 ug/L		lbs Removed 4.66		Total pounds Removed Tower		0.24	

# San Bernardino Municipal Water Department

## Operations Monthly Treatment Report

JAN 09 2006

Newmark OU / Towers / 19th St South GAC / 19th St North GAC

Reporting Period: Dec 2005

CITY OF SAN BERNARDINO  
MUNICIPAL WATER DEPARTMENT

EPA North Plant and Newmark Towers					
Production GAC Wells			Tower Wells		
EPA 006	59.782		Newmark 1	7.323	TCE+PCE-In 0.5 TCE+PCE-Out 0.0
EPA 007	190.418		Newmark 4	6.841	TCE+PCE-In 0.5 TCE+PCE-Out 0.0
NM3	125.567		West Tower Total	14.164 AF	
Total	375.767 AF		Newmark 2	0.000	TCE+PCE-In 0.0 TCE+PCE-Out 0.0
			East Tower Total	0.000 AF	
GAC Treatment					
Vessel	Monthly Treated	Total Since Change-out	Vessel	Monthly Treated	Total Since Change-out
1A	44.759	134.442	1B	0.000	528.430
2A	55.268	188.134	2B	0.000	506.262
3A	54.660	171.593	3B	0.000	385.655
4A	52.464	184.407	4B	0.000	483.411
5A	55.861	183.076	5B	0.000	479.463
6A	57.305	187.123	6B	0.000	537.707
7A	55.450	177.406	7B	0.000	529.313
Totals	375.767 AF	1226.181 AF		0.000 AF	3450.241 AF
Vessels			Towers		
TCE-In	0.5		#'s Removed Newmark 1		0.01
TCE-Out	0.0		#'s Removed Newmark 4		0.01
PCE-In	3.1		#'s Removed Newmark 2		0.00
PCE-Out	0.0				
Total	3.6 ug/L	lbs Removed 3.68	Total pounds Removed Tower		0.02

19th Street South Plant					
Production GAC Wells					
19th St 1	137.385				
19th St 2	0.992 AF				
Mt Vernon	0.000				
Total	138.377 AF				
GAC Treatment					
Vessel	Monthly Treated	Total Since Change-out	Vessel	Monthly Treated	Total Since Change-out
1A	31.122	656.251	1B	0.000	0.000
2A	40.819	703.578	2B	0.000	0.000
3A	38.994	740.055	3B	0.000	0.000
4A	40.305	698.396	4B	0.000	0.000
Totals	151.240 AF	2798.280 AF		0.000 AF	0.000 AF
Vessels					
TCE-In	0.5				
TCE-Out	0.0				
PCE-In	3.7				
PCE-Out	0.0				
Total	4.2 ug/L	lbs Removed 1.73			

RECEIVED  
W.U. ADMINISTRATION

JAN 09 2006

# San Bernardino Municipal Water Department

## Operations Monthly Treatment Report

Newmark OU / Towers / 19th St South GAC / 19th St North GAC

CITY OF SAN BERNARDINO  
MUNICIPAL WATER DEPARTMENT

Reporting Period: Dec 2005

EPA 19th Street North Plant					
<b>Production GAC Wells</b>					
EPA 001	210.732	AF			
EPA 108	181.015	AF			
EPA 109	193.776	AF			
EPA 110	299.970	AF			
EPA 111	292.041	AF			
EPA 112	189.823	AF			
<b>Totals</b>	<b>1367.357</b>	<b>AF</b>			
<b>GAC Treatment</b>					
Vessel	Monthly Treated	Total Since Change-out	Vessel	Monthly Treated	Total Since Change-out
1A	101.003	779.012	1B	0.000	0.000
2A	113.717	769.184	2B	0.000	0.000
3A	113.636	911.979	3B	0.000	0.000
4A	113.843	845.575	4B	0.000	0.000
5A	105.762	921.454	5B	0.000	0.000
6A	116.324	1168.354	6B	0.000	0.000
7A	0.000	0.000	7B	0.000	0.000
8A	101.157	766.516	8B	0.000	0.000
9A	115.721	835.778	9B	0.000	0.000
10A	116.763	787.166	10B	0.000	0.000
11A	107.826	879.977	11B	0.000	0.000
12A	121.908	967.956	12B	0.000	0.000
13A	112.112	894.523	13B	0.000	0.000
14A	0.000	0.000	14B	0.000	0.000
<b>Totals</b>	<b>1339.772</b>	<b>AF</b>		<b>0.000</b>	<b>AF</b>
		<b>10527.474</b>			<b>0.000</b>
<b>Vessels</b>					
TCE-In	0.9				
TCE-Out	0.0				
PCE-In	4.2				
PCE-Out	0.0				
<b>Total</b>	<b>5.1</b>	<b>ug/L</b>	<b>lbs Removed</b>	<b>18.57</b>	

Monthly		Summary		Year to Date	
Total AF Treated GAC	2736.728	Total AF Treated GAC	26876.549	Total AF Treated GAC	26876.549
Total AF Treated Towers	29.946	Total AF Treated Towers	5812.484	Total AF Treated Towers	5812.484
Combined AF Treated	2766.674	Combined AF Treated	32689.033	Combined AF Treated	32689.033
Total lbs Removed GAC	31.2	Total lbs Removed GAC	341.6	Total lbs Removed GAC	341.6
Total lbs Removed Towers	0.3	Total lbs Removed Towers	70.7	Total lbs Removed Towers	70.7
Combined Pounds Removed	31.5	Combined Pounds Removed	412.3	Combined Pounds Removed	412.3

San Bernardino Municipal Water Department Water Quality Monthly Report  
Newmark OU/Towers/19th St GAC/Muscoy OU  
Month of December 2005

RECEIVED  
W.U. ADMINISTRATION

JAN 17 2006

Waterman GAC Treatment Plant	DATE	Colliert P/A	MPN Total	MPN Fecal	HPC	Week 1-12/01/05		Week 2-12/08/05		Week 3-12/14/05		Week 4-12/21/05		Week 5-12/28/05		NO <sub>3</sub> (mg/L)
						PCE (ug/L)	TCE (ug/L)	PCE (ug/L)	TCE (ug/L)	PCE (ug/L)	TCE (ug/L)	PCE (ug/L)	TCE (ug/L)	PCE (ug/L)	TCE (ug/L)	
EPA 002	12/14/2005	A			<1.0											
EPA 004	12/14/2005	A			1.0											
EPA 005	12/14/2005	A			<1.0											
Combined Influent	12/14/2005															
LEAD VESSEL 1A	12/14/2005		<1.1	<1.1	1.0	NM	NM	NM	NM	2.2	0.7			NM	NM	
LEAD VESSEL 2A	12/14/2005		<1.1	<1.1	1.0	NM	NM	NM	NM	2.3	0.9			NM	NM	
LEAD VESSEL 3A	12/14/2005		<1.1	<1.1	1.0	NM	NM	NM	NM	2.5	1.0			NM	NM	
LEAD VESSEL 4A	12/14/2005		<1.1	<1.1	1.5	NM	NM	NM	NM	2.6	1.0			NM	NM	
LEAD VESSEL 5A	12/14/2005		<1.1	<1.1	2.5	NM	NM	NM	NM	2.4	1.0			NM	NM	
LEAD VESSEL 6A	12/14/2005		<1.1	<1.1	1.0	NM	NM	NM	NM	3.2	1.3			NM	NM	
LEAD VESSEL 7A	12/14/2005		<1.1	<1.1	2.0	NM	NM	NM	NM	2.8	1.1			NM	NM	
LEAD VESSEL 8A	12/14/2005		<1.1	<1.1	1.0	NM	NM	NM	NM	2.8	1.0			NM	NM	
Combined Effluent	12/14/2005		<1.1	<1.1	4.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

Newmark GAC Treatment Plant	DATE	Colliert P/A	MPN Total	MPN Fecal	HPC	Week 1-12/01/05		Week 2-12/08/05		Week 3-12/14/05		Week 4-12/21/05		Week 5-12/28/05		NO <sub>3</sub> (mg/L)
						PCE (ug/L)	TCE (ug/L)	PCE (ug/L)	TCE (ug/L)	PCE (ug/L)	TCE (ug/L)	PCE (ug/L)	TCE (ug/L)	PCE (ug/L)	TCE (ug/L)	
EPA 006	12/14/2005	A			1.0											
EPA 007	12/14/2005	A			4.0											
Combined Influent	12/14/2005				1.0											
LEAD VESSEL 1A	12/14/2005		<1.1	<1.1	29.0	NM	NM	NM	NM	3.1	<0.5			NM	NM	
LEAD VESSEL 2A	12/14/2005		<1.1	<1.1	<1.0	NM	NM	NM	NM	<0.5	<0.5			NM	NM	
LEAD VESSEL 3A	12/14/2005		<1.1	<1.1	1.0	NM	NM	NM	NM	<0.5	<0.5			NM	NM	
LEAD VESSEL 4A	12/14/2005		<1.1	<1.1	1.0	NM	NM	NM	NM	<0.5	<0.5			NM	NM	
LEAD VESSEL 5A	12/14/2005		<1.1	<1.1	<1.0	NM	NM	NM	NM	<0.5	<0.5			NM	NM	
LEAD VESSEL 6A	12/14/2005		<1.1	<1.1	1.0	NM	NM	NM	NM	<0.5	<0.5			NM	NM	
LEAD VESSEL 7A	12/14/2005		<1.1	<1.1	1.0	NM	NM	NM	NM	<0.5	<0.5			NM	NM	
Combined Effluent	12/14/2005		<1.1	<1.1	10.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

17th Street GAC Treatment Plant	DATE	Colliert P/A	MPN Total	MPN Fecal	HPC	Week 1-12/01/05		Week 2-12/08/05		Week 3-12/14/05		Week 4-12/21/05		Week 5-12/28/05		NO <sub>3</sub> (mg/L)
						PCE (ug/L)	TCE (ug/L)	PCE (ug/L)	TCE (ug/L)	PCE (ug/L)	TCE (ug/L)	PCE (ug/L)	TCE (ug/L)	PCE (ug/L)	TCE (ug/L)	
EPA 003	12/14/2005	A			<1.0											
Combined Influent	12/14/2005															
LEAD VESSEL 1B	12/14/2005		<1.1	<1.1	<1.0	NM	NM	NM	NM	0.9	0.9			NM	NM	
LEAD VESSEL 2B	12/14/2005		<1.1	<1.1	<1.0	NM	NM	NM	NM	1.0	1.0			NM	NM	
LEAD VESSEL 3B	12/14/2005		<1.1	<1.1	<1.0	NM	NM	NM	NM	1.2	0.8			NM	NM	
Combined Effluent	12/14/2005		<1.1	<1.1	8.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

19th Street SOUTH GAC Treatment Plant	DATE	Colliert P/A	MPN Total	MPN Fecal	HPC	Week 1-12/01/05		Week 2-12/08/05		Week 3-12/14/05		Week 4-12/21/05		Week 5-12/28/05		NO <sub>3</sub> (mg/L)
						PCE (ug/L)	TCE (ug/L)	PCE (ug/L)	TCE (ug/L)	PCE (ug/L)	TCE (ug/L)	PCE (ug/L)	TCE (ug/L)	PCE (ug/L)	TCE (ug/L)	
19th Street Well 01	12/14/2005				1.0											
19th Street Well 02	12/14/2005				1.0											
Combined Influent	12/14/2005															
LEAD VESSEL 1A	12/14/2005		<1.1	<1.1	<1.0	NM	NM	NM	NM	5.8	0.6			NM	NM	
LEAD VESSEL 2A	12/14/2005		<1.1	<1.1	<1.0	NM	NM	NM	NM	3.0	0.5			NM	NM	
LEAD VESSEL 3A	12/14/2005		<1.1	<1.1	<1.0	NM	NM	NM	NM	3.6	0.6			NM	NM	
LEAD VESSEL 4A	12/14/2005		<1.1	<1.1	<1.0	NM	NM	NM	NM	4.0	0.7			NM	NM	
LEAD VESSEL 5A	12/14/2005		<1.1	<1.1	1.0	NM	NM	NM	NM	4.1	0.8			NM	NM	
Combined Effluent	12/14/2005		<1.1	<1.1	1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	<0.5	<0.5	<0.5



**San Bernardino Municipal Water Department Water Quality Monthly Report**  
**Newmark OU/Towers/19th St GAC/Muscoy OU**  
**Month of December 2005**

19th Street NORTH GAC Treatment Plant	DATE	Colilert P/A	MPN Total	MPN Fecal	HPC	Week 1-12/01/05		Week 2-12/08/05		Week 3-12/14/05		Week 4-12/21/05		Week 5-12/28/05		NO <sub>3</sub> (mg/L)
						PCE (ug/L)	TCE (ug/L)	PCE (ug/L)	TCE (ug/L)	PCE (ug/L)	TCE (ug/L)	PCE (ug/L)	TCE (ug/L)	PCE (ug/L)	TCE (ug/L)	
EPA 001	12/14/2005	A			<1.0											
EPA 108	12/14/2005	A			<1.0											
EPA 109	12/14/2005	A			11.0											
EPA 110	12/14/2005	A			<1.0											
EPA 111	12/14/2005	A			<1.0											
EPA 112	12/14/2005	A			<1.0											
Combined Influent	12/14/2005									4.3	0.9					
LEAD VESSEL 1A	12/14/2005		<1.1	<1.1	10.0	NM	NM	NM	NM	0.5	<0.5	NM	NM	NM	NM	
LEAD VESSEL 2A	12/14/2005		<1.1	<1.1	1.0	NM	NM	NM	NM	0.5	<0.5	NM	NM	NM	NM	
LEAD VESSEL 3A	12/14/2005		<1.1	<1.1	1.5	NM	NM	NM	NM	0.6	<0.5	NM	NM	NM	NM	
LEAD VESSEL 4A	12/14/2005		<1.1	<1.1	1.0	NM	NM	NM	NM	0.6	<0.5	NM	NM	NM	NM	
LEAD VESSEL 5A	12/14/2005		<1.1	<1.1	1.0	NM	NM	NM	NM	0.6	<0.5	NM	NM	NM	NM	
LEAD VESSEL 6A	12/14/2005		<1.1	<1.1	1.0	NM	NM	NM	NM	0.6	<0.5	NM	NM	NM	NM	
LEAD VESSEL 8A	12/14/2005		<1.1	<1.1	1.5	NM	NM	NM	NM	<0.5	<0.5	NM	NM	NM	NM	
LEAD VESSEL 9A	12/14/2005		<1.1	<1.1	<1.0	NM	NM	NM	NM	0.6	<0.5	NM	NM	NM	NM	
LEAD VESSEL 10A	12/14/2005		<1.1	<1.1	<1.0	NM	NM	NM	NM	0.7	<0.5	NM	NM	NM	NM	
LEAD VESSEL 11A	12/14/2005		<1.1	<1.1	10.0	NM	NM	NM	NM	<0.5	<0.5	NM	NM	NM	NM	
LEAD VESSEL 12A	12/14/2005		<1.1	<1.1	1.0	NM	NM	NM	NM	<0.5	<0.5	NM	NM	NM	NM	
LEAD VESSEL 13A	12/14/2005		<1.1	<1.1	1.0	NM	NM	NM	NM	0.5	<0.5	NM	NM	NM	NM	
Combined Effluent	12/14/2005		<1.1	<1.1	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	

Waterman Stripping Towers	DATE	Colilert P/A	MPN Total	MPN Fecal	HPC	PCE	TCE	TB	PB
Waterman Combined Tower Influent	12/13/2005					4.8	0.7	<0.5	<0.5
Waterman N. Tower Effluent	12/13/2005	A			5.0	<0.5	<0.5	<0.5	<0.5
Waterman S. Tower Effluent	12/13/2005	A			2.0	<0.5	<0.5	<0.5	<0.5

Newmark Stripping Towers	DATE	Colilert P/A	MPN Total	MPN Fecal	HPC	PCE	TCE	TB	PB
Newmark W. Tower Influent	12/13/2005					<0.5	<0.5	<0.5	<0.5
Newmark W. Tower Effluent	12/13/2005	A			2.5	<0.5	<0.5	<0.5	<0.5
Newmark E. Tower Influent	12/13/2005					*	*	*	*
Newmark E. Tower Effluent	12/13/2005	*			*	*	*	*	*

\* No Sample

**NOTE:** If any VOC contaminant is detected in the Towers' Effluent Samples, the laboratory report(s) will be attached for DHS review.



RECEIVED  
W.U. ADMINISTRATION

JAN 09 2006

**EPA  
PRODUCTION WELL RUN TIME  
Dec-05**

**CITY OF SAN BERNARDINO  
MUNICIPAL WATER DEPARTMENT**

**December Total 744 Hours**

<b>Well</b>	<b>Total Run Hours</b>
EPA 001	733
EPA 002	744
EPA 003	740
EPA 004	744
EPA 005	744
EPA 006	383
EPA 007	743
EPA 108	737
EPA 109	744
EPA 110	744
EPA 111	672
EPA 112	744
NEWMARK 3	744



**MICHAEL LOWE**  
Water Utility  
Operations Superintendent

cc: Bill Bryden  
Matt Litchfield  
dbane@URSGREINER.com